

# Chapter 2 Test

## Form B

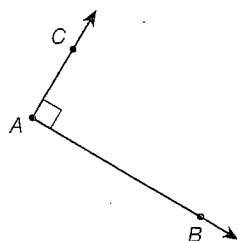
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Name \_\_\_\_\_

Date \_\_\_\_\_

8. One of the following statements is represented by the figure. Which one?

- a. Two lines that are perpendicular
- b.  $AB = AC$
- c. A straight angle
- d. Two rays that are perpendicular



8. \_\_\_\_\_

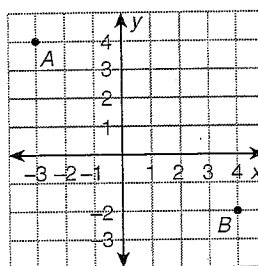
9.  $T$  is the midpoint of  $\overline{PQ}$ . Which one of the following is not an appropriate statement?

- a.  $PT = TQ$
- b.  $\overline{PT} \cong \overline{TQ}$
- c.  $\overline{PT} = \overline{TQ}$
- d.  $PT + TQ = PQ$

9. \_\_\_\_\_

10. The distance between points  $A$  and  $B$  is  $\boxed{?}$ .

- a.  $\sqrt{85}$
- b.  $\sqrt{13}$
- c.  $\sqrt{11}$
- d. 85



10. \_\_\_\_\_

11. If an obtuse angle is bisected, the resulting angles are  $\boxed{?}$ .

- a. never congruent
- b. always acute
- c. always obtuse
- d. right angles

11. \_\_\_\_\_

12. "If I get a chance, I will succeed." For this conditional statement, the underlined portion is  $\boxed{?}$ .

- a. the conclusion
- b. the converse
- c. the hypothesis
- d. the argument

12. \_\_\_\_\_

13. Decide which one of the following statements is false.

- a. Any three points lie on a distinct line.
- b. A line contains at least two points.
- c. Through any two distinct points there exists exactly one line.
- d. Three noncollinear points determine a plane.

13. \_\_\_\_\_

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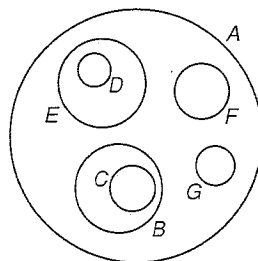
14. Consider the conditional statement, "If  $x^2 = 25$ , then  $x = -5$ ." All of the following are true statements except ☐.
- a.  $(-5)^2 = 25$       b. the statement is false  
c. the converse is true      d. the converse is false

14. \_\_\_\_\_

15. If  $PQ = 3$  and  $PQ + RS = 5$ , then  $3 + RS = 5$  is an example of the ☐.
- a. Multiplication Property of Equality  
b. Substitution Property of Equality  
c. Reflexive Property of Equality  
d. Transitive Property of Equality

15. \_\_\_\_\_

16. Given the Venn diagram as shown.  
Relationship: "is inside of."  
Example: Circle  $G$  is inside of circle  $A$ , since no points of circle  $G$  lie on circle  $A$  or outside of circle  $A$ .  
The relationship "is inside of" is ☐.



16. \_\_\_\_\_

- a. reflexive      b. symmetric  
c. transitive      d. none of these

17. The relationship "is a pen pal of" is ☐.
- a. reflexive      b. symmetric  
c. transitive      d. none of these

17. \_\_\_\_\_

18. The sides of two angles form two pairs of opposite rays.  
The angles are ☐.
- a. vertical angles      b. a linear pair  
c. complementary      d. supplementary

18. \_\_\_\_\_

19.  $\angle 1$  and  $\angle 2$  are a linear pair.  $m\angle 2 = 67^\circ$ .  $m\angle 1 =$  ☐.
- a.  $67^\circ$       b.  $23^\circ$       c.  $33^\circ$       d.  $113^\circ$

19. \_\_\_\_\_

20.  $\angle 1$  and  $\angle 2$  are supplementary angles.  $\angle 1$  and  $\angle 3$  are vertical angles.  
 $m\angle 2 = 72^\circ$ .  $m\angle 3 =$  ☐.
- a.  $108^\circ$       b.  $72^\circ$       c.  $18^\circ$       d.  $28^\circ$

20. \_\_\_\_\_